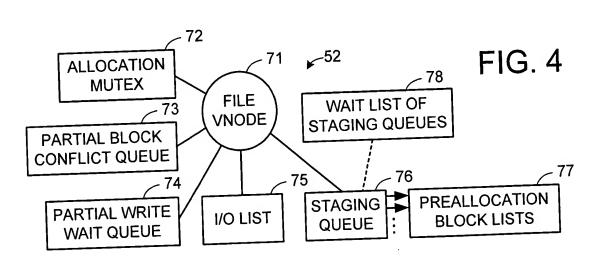


FIG. 2



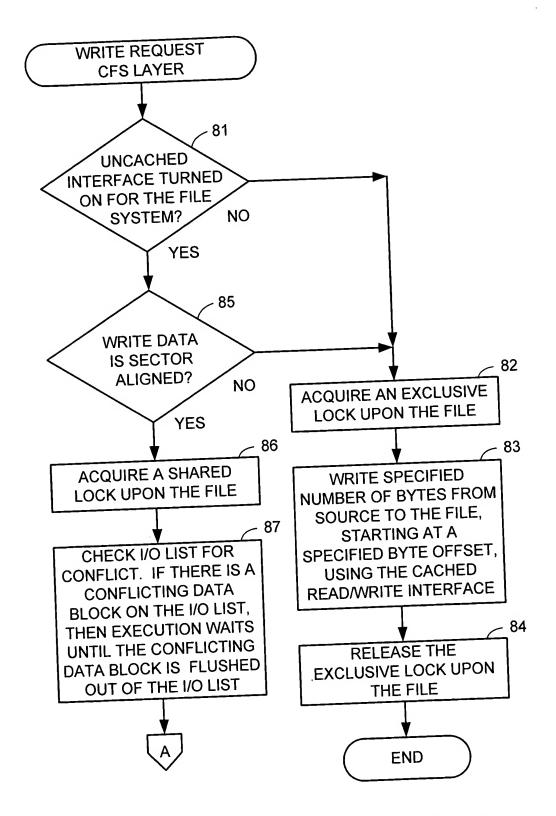


FIG. 5

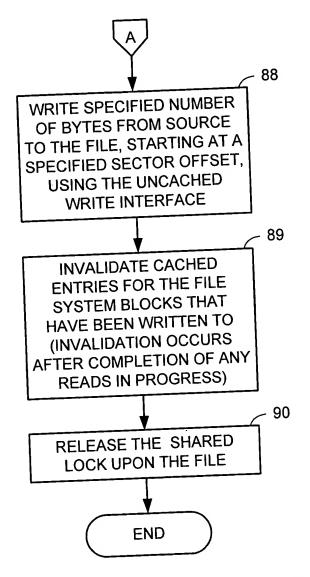


FIG. 6

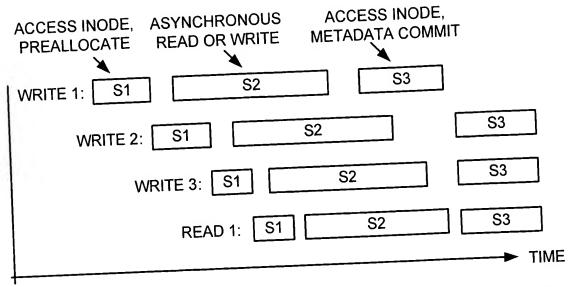


FIG. 7

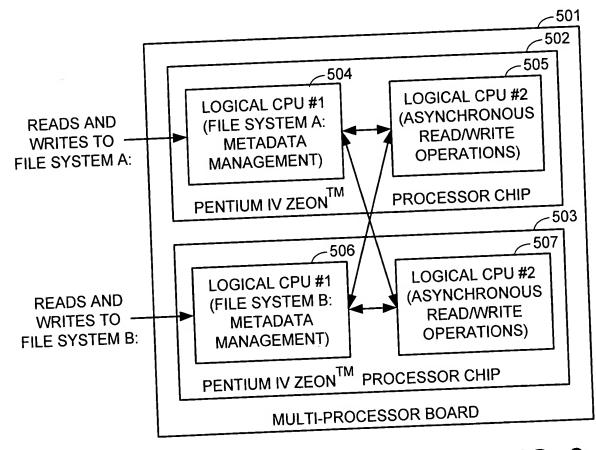
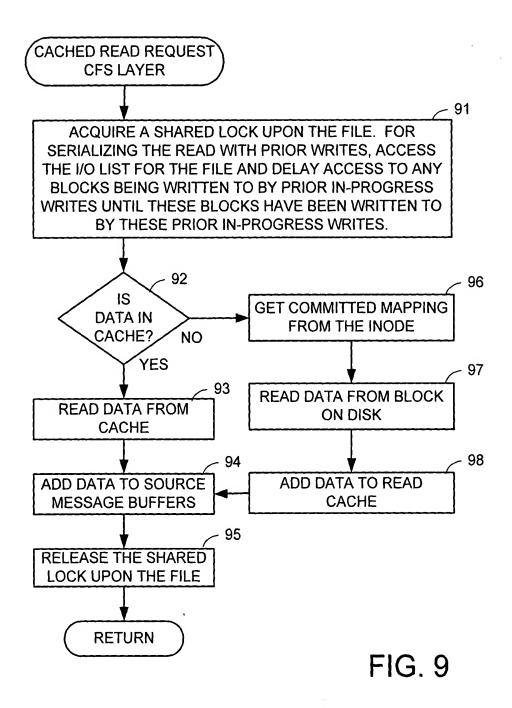
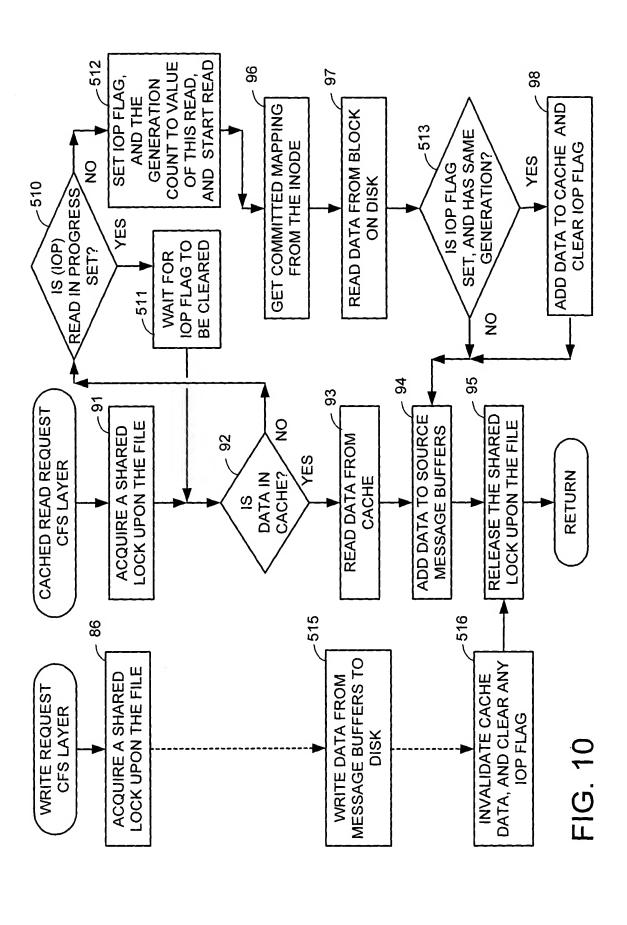
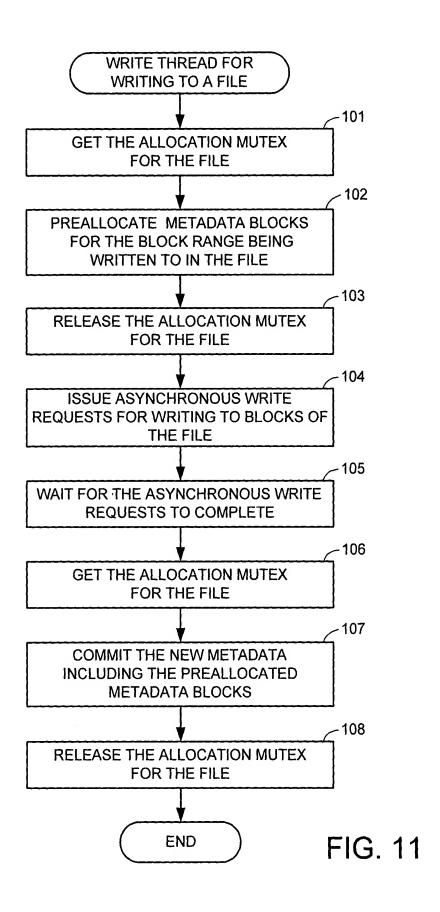
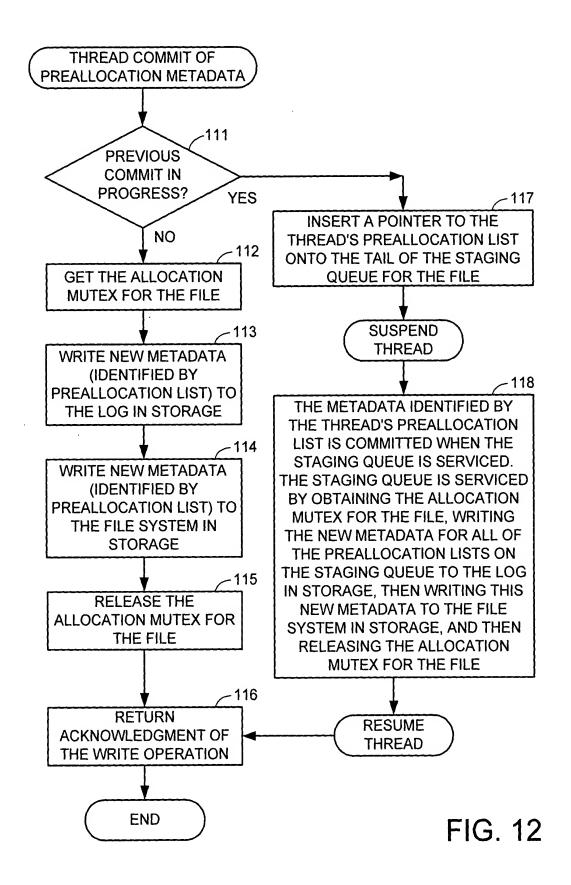


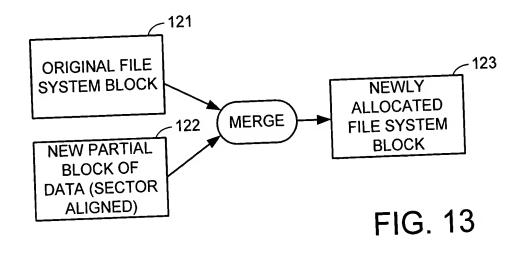
FIG. 8











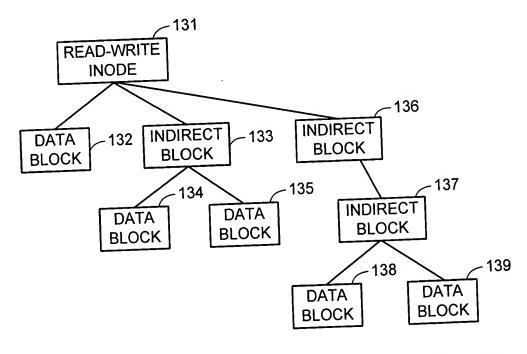


FIG. 14

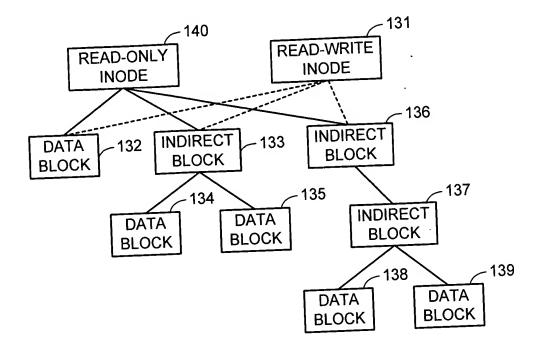


FIG. 15

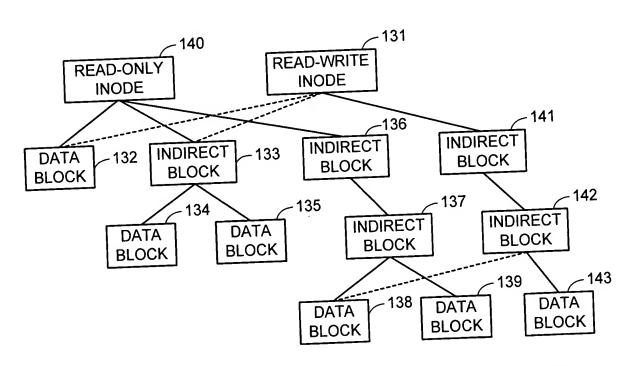


FIG. 16

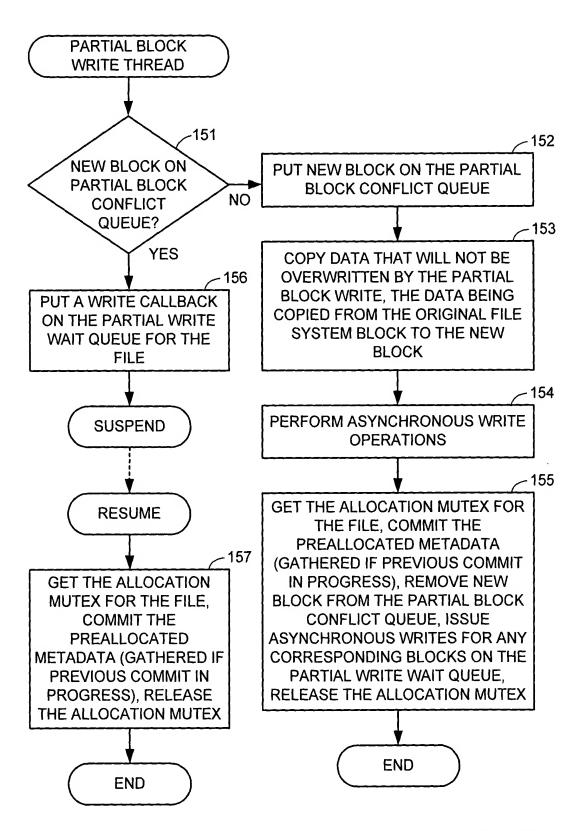
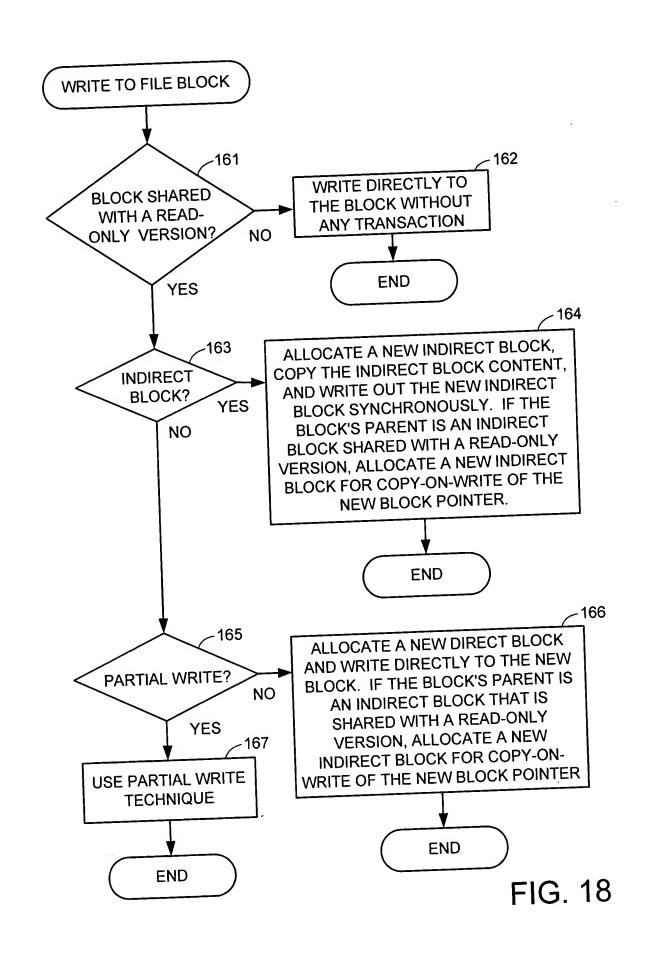


FIG. 17



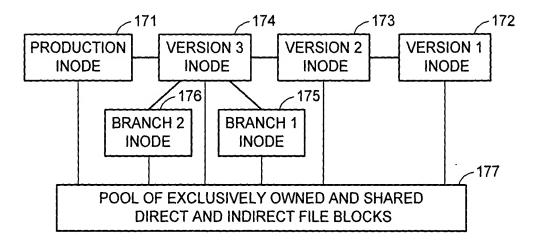


FIG. 19

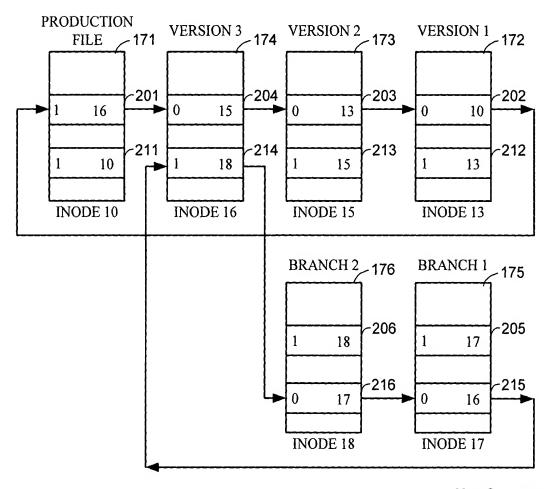
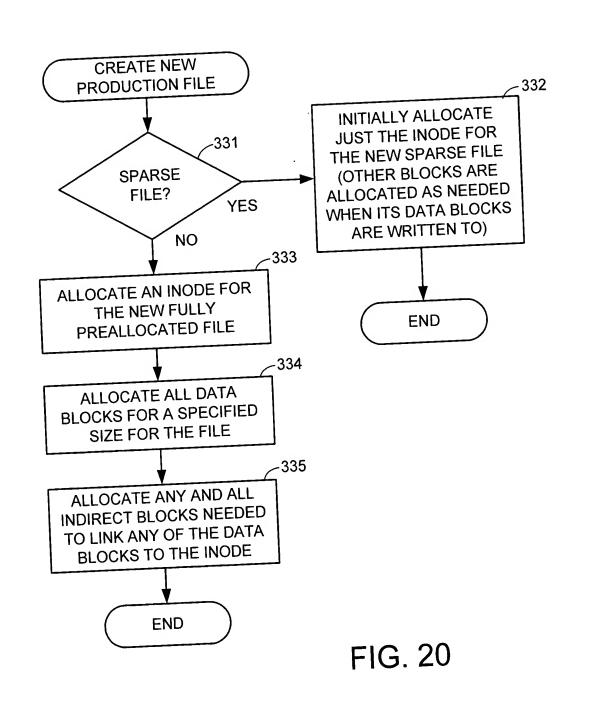


FIG. 23



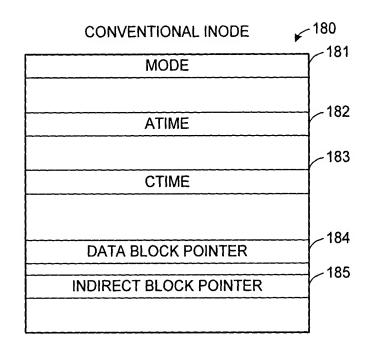


FIG. 21 (PRIOR ART)

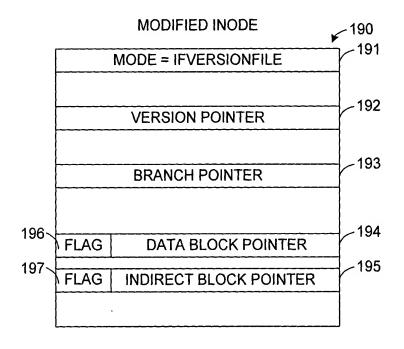
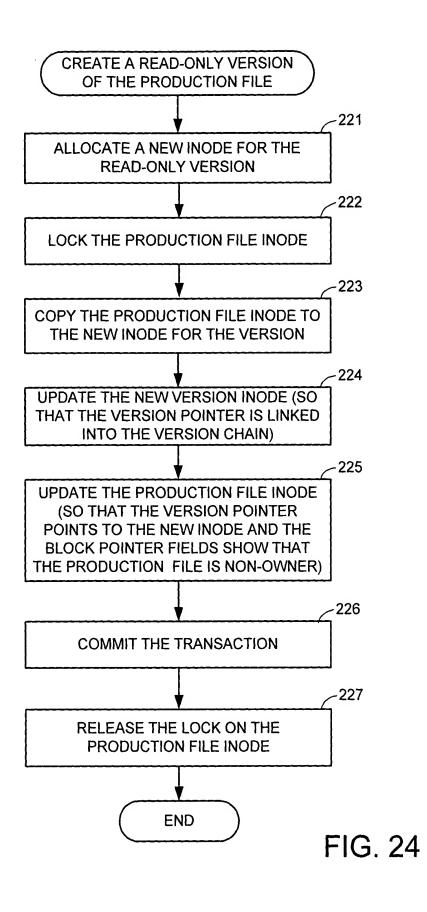
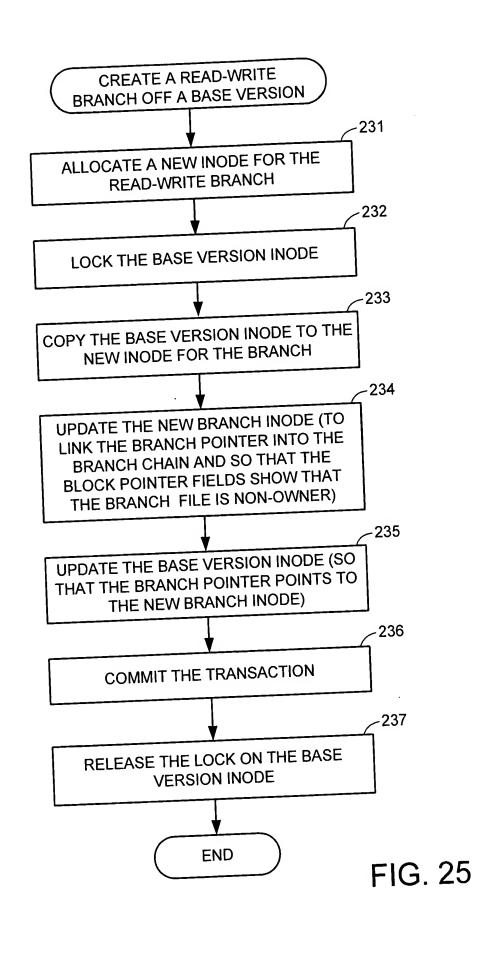
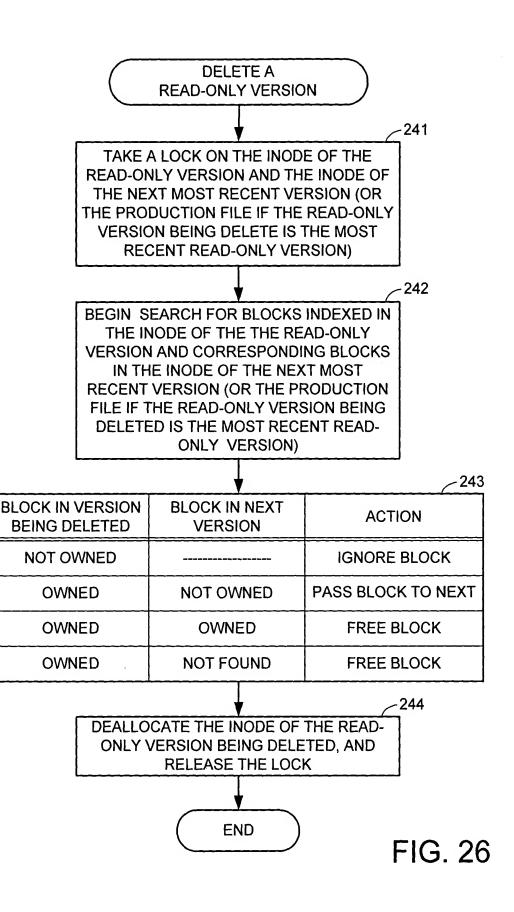


FIG. 22







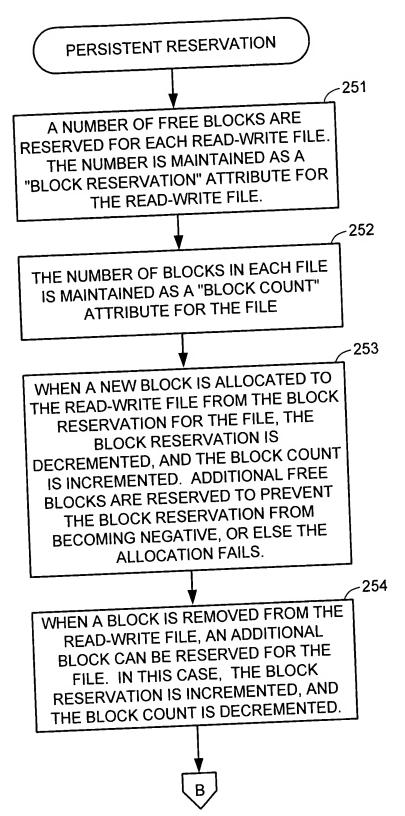


FIG. 27

THE CREATION OF A READ-ONLY VERSION OF A READ-WRITE FILE WILL FAIL UNLESS THERE CAN BE RESERVED A NUMBER OF FREE BLOCKS EQUAL TO THE BLOCK COUNT OF THE READ-WRITE FILE. FOR EXAMPLE, MORE FREE BLOCKS ARE RESERVED AS THE BLOCK RESERVATION OF THE READ-WRITE FILE IS INCREMENTED BY THE NUMBER OF BLOCKS THAT BECOME SHARED WITH THE NEW READ-ONLY VERSION.

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THE CREATION OF A READ-WRITE BRANCH OF A READ-ONLY BASE VERSION WILL FAIL UNLESS THERE CAN BE RESERVED A NUMBER OF FREE BLOCKS EQUAL TO THE BLOCK COUNT OF THE READ-ONLY BASE VERSION. FOR EXAMPLE, MORE FREE BLOCKS ARE RESERVED AS THE BLOCK RESERVATION OF THE BRANCH FILE IS INCREMENTED BY THE NUMBER OF BLOCKS THAT BECOME SHARED WITH THE NEW READ-WRITE BRANCH FILE.

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A RESTORE OF THE PRODUCTION FILE WITH A READ-ONLY VERSION WILL FAIL IF THE BLOCK COUNT OF THE READ-ONLY VERSION EXCEEDS THE BLOCK COUNT OF THE PRODUCTION FILE UNLESS THERE CAN BE RESERVED A NUMBER OF FREE BLOCKS EQUAL TO THE DIFFERENCE BETWEEN THE BLOCK COUNT OF THE READ-ONLY VERSION AND THE BLOCK COUNT OF THE PRODUCTION FILE. FOR EXAMPLE, THE BLOCK RESERVATION OF THE PRODUCTION FILE IS INCREMENTED BY THE ORIGINAL BLOCK COUNT OF THE PRODUCTION FILE, DECREMENTED BY THE BLOCK COUNT OF THE READ-ONLY VERSION, AND ANY DEFICIENCY IS MADE UP BY INCREMENTING THE BLOCK RESERVATION AS ADDITIONAL FREE BLOCKS ARE RESERVED FOR THE FILE.

END

FIG. 28

